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Address to:

Box Patent Application  
Commissioner for Patents  
Washington, D.C. 20231

Attorney's Docket No. SONY-U0380

First Named Inventor HARUO OBA

UTILITY PATENT APPLICATION TRANSMITTAL  
( under 37 CFR 1.53(b) )

SIR:

Transmitted herewith for filing is the patent application entitled:  
PORTABLE AUDIO LISTENING APPARATUS

CERTIFICATION UNDER 37 CFR § 1.10

I hereby certify that this New Application and the documents referred to as enclosed herein are being deposited with the United States Postal Service on this date November 2, 2000, in an envelope bearing "Express Mail Post Office To Addressee" Mailing Label Number EL254113690US addressed to: Box Patent Application, Commissioner for Patents, Washington, D.C. 20231.

Lana Brenner  
(Name of person mailing paper)

[Signature]  
(Signature)

Enclosed are:

1. X Transmittal Form (two copies required)
2. The papers required for filing date under CFR § 1.53(b):
  - i. 20 Pages of specification (including claims and abstract);
  - ii. 7 Sheets of drawings.  
         formal                      X informal
3. Declaration or oath
  - a. X Unsigned - Combined with Power of Attorney

ACCOMPANYING APPLICATION PARTS

4.      An assignment of the invention to Sony Corporation is attached (including Form PTO-1595).
  - i.      37 CFR 3.73(b) Statement (when there is an assignee)
5. X Power of Attorney - Unsigned - Combined with Declaration
6.      An Information Disclosure Statement (IDS) is enclosed, including a PTO-1449 and copies of      references.
7.      Preliminary Amendment.
8. X Return Receipt Postcard (MPEP 503 -- should be specifically itemized)
9. FOREIGN PRIORITY
  - [X] Priority of application no. P11-320629 filed on November 11, 1999 in Japan is claimed under 35 USC 119.

The certified copy of the priority application:

- X is filed herewith; or  
     has been filed in prior application no.      filed on      or  
     will be provided.

     English Translation Document (if applicable)

## 10. FEE CALCULATION

- a. ☐ Amendment changing number of claims or deleting multiple dependencies is enclosed.

## CLAIMS AS FILED

	Number Filed	Number Extra	Rate	Basic Fee (\$710)
Total Claims	15 - 20	* 0	x \$18.00	0
Independent Claims	4 - 3	* 1	x \$80.00	80.00
<u>x</u> Multiple dependent claim(s), if any			\$270.00	270.00

\*If less than zero, enter "0".

Filing Fee Calculation . . . . . \$1,060.00

50% Filing Fee Reduction (if applicable) . . . . . \$

## 11. Small Entity Status

- a. ☐ A small entity statement is enclosed.  
 b. ☐ A small entity statement was filed in the prior nonprovisional application and such status is still proper and desired.  
 c. ☐ is no longer claimed.

## 12. Other Fees

- ☐ Recording Assignment [\$40.00] . . . . . \$0  
☐ Other fees . . . . . \$0  
☐ Specify \_\_\_\_\_ . . . . . \$0

Total Fees Enclosed . . . . . \$1,060.00

## 13. Payment of Fees

- x Check(s) in the amount of \$1,060.00 enclosed.  
☐ Charge Account No. 12-1420 in the amount of \$\_\_\_\_.  
A duplicate of this transmittal is attached.

## 14. All correspondence regarding this application should be forwarded to the undersigned attorney:

Charles P. Sammut  
 Limbach & Limbach L.L.P.  
 2001 Ferry Building  
 San Francisco, CA 94111  
 Telephone: 415/433-4150  
 Facsimile: 415/433-8716



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PATENT TRADEMARK OFFICE

## 15. Authorization to Charge Additional Fees

- X The Commissioner is hereby authorized to charge any additional fees (or credit any overpayment) associated with this communication and which may be required under 37 CFR § 1.16 or § 1.17 to Account No. 12-1420. A duplicate of this transmittal is attached.

LIMBACH & LIMBACH L.L.P.

November 2, 2000  
 (Date)

Attorney Docket No. SONY-U0380  
 [SO0P1380US00]

By: \_\_\_\_\_

Charles P. Sammut  
 Registration No. 28,901  
 Attorney(s) or Agent(s) for Applicant(s)

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## PORTABLE AUDIO LISTENING APPARATUS

### BACKGROUND OF THE INVENTION

#### 1. Field of the Invention

The present invention relates to portable audio listening apparatuses, and more specifically, to a portable audio listening apparatus in which a headphone can be connected to a player at any place without wire.

#### 2. Description of the Related Art

Conventionally, portable players, typical of which is a Walkman (a trade name of Sony Corporation), have been widely used to listen to music by connecting them to headphones. Portable players can be put in bags or mounted on human bodies by belts. When headphones are used, the cables thereof may restrict the movement of the user. Recently, musical information can be sent by radio from players to headphones with the use of infrared light. For outdoor use, however, it is not necessarily successful to use infrared-light communication in natural light. It can also be considered that musical information is distributed by radio other than infrared light. The current technologies, however, cannot assure high-sound-quality transfer. Therefore, a technology which allows high-sound-quality transfer by radio even outdoors has been demanded.

Conventionally, there has been known that communication

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between two independent apparatuses each having an electrode and emitting a weak radio wave which is insufficient in strength for communicating with each other is made possible by enhancing the radio wave through a human body (Japanese Unexamined Patent Application Publication No. Hei-7-170215 and US Patent No. 5,914,701). Such a method sufficiently transfers musical information having a quality of super audio CD (SACD).

#### SUMMARY OF THE INVENTION

The present invention has been made in consideration of the foregoing condition. Accordingly, an object of the present invention is to provide an audio listening apparatus which does not cause radio interference and which allows an audio signal to be positively transferred from a player to a headphone even in natural light without wire.

The foregoing object is achieved in one aspect of the present invention through the provision of a portable audio listening apparatus including means for generating an audio modulated signal modulated in a band in which a signal is transferred by using a human body; a first electrode for outputting the generated audio modulated signal; a second electrode for receiving an audio modulated signal transferred through the first electrode and a human body; means for demodulating the audio modulated signal received

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by the second electrode; and means for generating audible sound according to the demodulated signal.

In this structure, the modulated signal output from the first electrode is transferred to the second electrode through a human body and the transferred signal is demodulated to provide music without wire. Since the modulated signal is transferred through a human body, the radio wave itself can be weak. Therefore, the radio wave does not cause radio interference in the vicinity. Even in natural light, music is transferred without noise.

The foregoing object is achieved in another aspect of the present invention through the provision of a portable audio listening apparatus including a portable transmission apparatus and a portable receiving apparatus electrically and mechanically structured as different units, the portable transmission apparatus including means for generating an audio modulated signal modulated in a band in which a signal is transferred by using a human body; and a first electrode for outputting the generated audio modulated signal, and the portable receiving apparatus including a second electrode for receiving an audio modulated signal transferred through the first electrode and a human body; means for demodulating the audio modulated signal received by the second electrode; and means for generating audible sound according to the demodulated signal.

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predetermined wire which is disposed near the body of the user. The former is suited to a case in which the body of the apparatus is mounted at the waist of the user by a belt, and the latter is suited to a case in which the apparatus is put in a bag.

As described above, according to the present invention, a wireless, portable audio listening system which does not receive noise even in natural light, which does not cause radio-wave disturbance to other systems, and which does not cause radio interference is provided.

#### BRIEF DESCRIPTION OF THE DRAWINGS

Fig. 1 is a view showing a whole system according to a first embodiment of the present invention.

Fig. 2 is a block diagram showing the circuit structure of a portable audio playback apparatus of the first embodiment.

Fig. 3 is a block diagram showing the structure of a signal processing circuit of a headphone in the first embodiment.

Fig. 4 is a view showing individual authentication in the first embodiment.

Fig. 5 is a view showing a system according to a second embodiment of the present invention.

Fig. 6 is a block diagram showing the structure of a

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signal processing circuit of a headphone in the second embodiment.

Fig. 7 is a view showing a system according to a third embodiment of the present invention.

Fig. 8 is a block diagram showing the circuit structure of a portable audio recording and playback apparatus in the third embodiment.

Fig. 9 is a view showing individual authentication in the third embodiment.

#### DESCRIPTION OF THE PREFERRED EMBODIMENTS

Embodiments of the present invention will be described below.

##### [First embodiment]

A first embodiment of the present invention will be described first. In this embodiment, a headphone and a portable audio playback apparatus are used to send a reproduced audio signal to the headphone with the body of the user being used as a transmission path.

Fig. 1 shows a headphone 10 and a portable audio playback apparatus 20 in the first embodiment. In the figure, the headphone 10 is formed of a headphone body 11, an electric-circuit unit 12, and ear pads 13. The headphone 10 has the same structure as usual headphones. The ear pads 13 provided for the headphone body 11 are made from an

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The portable audio playback apparatus 20 is almost the same as a usual portable audio playback apparatus, such as a Walkman (trade name) of Sony Corporation, and has an electrode 21 at its side.

Fig. 2 shows the circuit structure of the portable audio playback apparatus 20 shown in Fig. 1. In Fig. 2, an audio-signal playback section 30 reproduces audio signals (for R channel and for L channel) from a cassette tape, a Mini disk, a compact disk, or a semiconductor memory. These media which store audio signals may be detachable, or

Fig. 2 shows the circuit structure of the portable audio playback apparatus 20 shown in Fig. 1. In Fig. 2, an audio-signal playback section 30 reproduces audio signals (for R channel and for L channel) from a cassette tape, a Mini disk, a compact disk, or a semiconductor memory. These media which store audio signals may be detachable, or

secured. Various recording methods can be employed.

An R-channel reproduced signal is sent to a mixer 34 through a level adjustment circuit 31, a modulator 32, and a band-pass filter 33 for the R channel. The modulator 32 performs modulation, for example, at a modulation frequency of 2.3 MHz. An L-channel reproduced signal is sent to the mixer 34 through a level adjustment circuit 35, a modulator 36, and a band-pass filter 37 for the L channel. The output of the mixer 34 is amplified by an output amplifier 38, and then sent to an output terminal 39. The output terminal 39 is connected directly or indirectly to the electrode 21 of the portable audio playback apparatus 20 shown in Fig. 1.

Fig. 3 shows the signal processing circuit 14 provided for the electric-circuit unit 12 shown in Fig. 1. In this figure, an input terminal 50 is directly or indirectly connected to the electrically conductive ear pads 13 shown in Fig. 1. A signal output from the portable audio playback apparatus 20 is sent to the ear pads 13 through the body of the user, and then is sent from the ear pads 13 to the signal processing circuit 14 of the electric-circuit unit 12 through predetermined signal lines (not shown). The modulated signal input to the input terminal 50 is amplified by a preamplifier 51, and then is sent to an R-channel demodulator 52 and to an L-channel demodulator 53 and demodulated. The demodulated audio signals are amplified by

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output amplifiers 54 and 55, and then sent to speaker elements 56 and 57. The speaker elements 56 and 57 are disposed at the ear pads 13, and connected to the electric-circuit unit 12 through predetermined wiring.

In the present embodiment, an audio signal reproduced from the portable audio playback apparatus 20 is modulated, transferred through a human body, which serves as a transmission path, demodulated by the signal processing circuit 14 in the headphone 10, and output from the speaker elements 56 and 57. With this structure, an audio signal is positively listened to without noise even in natural light while the body of the user does not serve as an obstacle.

The electrode 21 of the portable audio playback apparatus 20 assures a sufficient transfer characteristic with the body of the user even if it does not directly contact the skin of the user. Of course, the transfer characteristic may be improved by using an appropriate material of clothes. Alternatively, some measure may be taken so that the electrode 21 contacts the skin.

It may be also allowed that the portable audio playback apparatus 20 is connected to a wire and the wire itself or an electrode connected to the open end of the wire contacts the body of the user directly or through clothes. In this case, the portable audio playback apparatus 20 may be slightly apart from the body of the user, such as in a case

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in which the apparatus 20 is put in a bag.

In the above embodiment, the ear pads 13 of the headphone 10 serve as electrodes. The electric-circuit unit 12 may be connected to a wire which is directly or indirectly connected to the body of the user. The ear pads may be provided with electrodes.

As shown in Fig. 4, it is also possible that the electric-circuit unit 12 of the headphones 10 is provided with an authentication-data storage section 58 for storing individual authentication data, and by using it, individual authentication is executed by an authentication section 40 in the portable audio playback apparatus 20. An individual-authentication method may be a method using a simple code number or a method of authenticating a one-time password by a challenge and response. Only when a successful authentication is obtained, the authentication section 40 activates a playback control section 41 to output an audio signal. It is further possible that the portable audio playback apparatus 20 stores individual authentication data and the headphone 10 is provided with an authentication section. In this case, the headphone 10 is provided with a mute circuit such that listening is allowed only when a successful authentication is obtained.

Instead of the headphone 10, a small earphone may be used. In this case, if the circuit section cannot be placed

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in the earphone, the circuit section may be formed separately from the ear phone and connected thereto by wire.  
[Second embodiment]

A second embodiment of the present invention will be described below. In this embodiment, independent headphones 10R and 10L, one for the right ear and the other for the left ear, are provided. A portable audio playback apparatus 20 has the same structure as that of the first embodiment.

Fig. 5 shows the headphones 10R and 10L of the present embodiment. Each headphone is formed of a headphone body 11, an electric-circuit unit 12, and an ear pad 13. The ear pad 13 is provided with an ear support 15. The headphone 10R is for the R channel, and the headphone 10L is for the L channel. A built-in demodulator 62 (shown in Fig. 6) determines the channel (either the R channel or the L channel). The headphones may be structured such that they can be used for both R and L channels and predetermined change-over switches determine the channels.

Fig. 6 shows the structure of a signal processing circuit 60 of the electric-circuit unit 12 according to the present embodiment. The signal processing circuit 60 is formed of an input terminal 50, a preamplifier 61, a modulator 62, an amplifier 63, and a speaker element 64. This circuit operates in the same way as shown in Fig. 3 except that the circuit performs signal processing for

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either of the two channels.

Also in this structure, the user always receives a signal output from the portable audio playback apparatus 20 by radio to listen to sound in the same way as described in the first embodiment.

In the present embodiment, two headphones are separately prepared for the right ear and for the left ear. Only one of the two headphones may be used. In this case, a change-over switch may be provided such that one of an R-channel signal, an L-channel signal, and a mixed signal for the R and L channels can be received. To reproduce the mixed signal, a mixer is required. If the original signal is not a stereo signal, the circuit shown in Fig. 6 can be used as is.

[Third embodiment]

A third embodiment of the present invention will be described next. In the present embodiment, musical data can be externally downloaded through the body of the user. A recording function is added to a portable audio playback apparatus 20 in the present embodiment. Hereinafter, the apparatus is called a portable audio recording and playback apparatus 20 for convenience.

Fig. 7 shows the present embodiment as a whole. In Fig. 7, the user wears a headphone 10 and the portable audio recording and playback apparatus 20. The user touches an

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electrode 201 provided for an external audio-signal transmission apparatus 200 by a hand so that an audio signal sent from the audio-signal transmission apparatus 200 is recorded by the portable audio recording and playback apparatus 20.

According to the description of Japanese Unexamined Patent Application Publication No. Hei-7-170215, modulation frequencies of 2.3 MHz and 2.8 MHz can be used for audio signals, and video modulation frequencies of 11.5 to 13.5 MHz can also be used. In the present embodiment, this frequency band is used for audio-signal recording. For example, an audio signal to be recorded is modulated by using a modulation frequency of 11.5 MHz and the signal is transferred to the portable audio recording and playback apparatus 20 through the electrode and the body of the user.

Fig. 8 shows a signal processing circuit provided for the portable audio recording and playback apparatus shown in Fig. 7. The same symbols as those used in Fig. 2 are assigned to the portions corresponding to those shown in Fig. 2. In Fig. 8, an electrode 39 (corresponding to the electrode 21 shown in Fig. 1) is used for receiving a signal sent from the audio-signal transmission apparatus 200. A signal input through the electrode 39 is sent to a demodulator 72 through a band-pass filter 71 and demodulated. The band-pass filter 71 passes only signals having

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frequencies in the vicinity of 11 MHz. The audio-signal transmission apparatus 200 transmits, for example, converted digital signals (may transmit analog signals although they have noise). The input signal is waveform-shaped by a comparator 73 and sent to an audio-signal processing circuit 74. The audio-signal processing circuit 74 restores the audio data (original data) or the original analog audio signal according to the received signal. The musical data is sent to an audio-signal playback section 30 and recorded. The Moving Picture Coding Experts Group layer 3 (MPEG layer 3, or MP3) method can be used as a recording method.

In the present embodiment, since data is transferred through a frequency band exceeding 10 MHz, a transmission rate of about 1 Mbps can be easily achieved. Music of three minutes is transferred within several seconds if the music is recorded by the MP3 method.

Fig. 8 shows a case in which a signal to be downloaded, including a header signal, is transferred in one direction. An instruction to the audio-signal transmission apparatus 200 is given by a method other than the human-body transfer method, such as pressing a music selection button. When a modulator circuit for a video-signal band is added to the circuit shown in Fig. 8, bi-directional transfer (half duplex) can be easily implemented.

As shown in Fig. 9, it is possible that an individual-



authentication-data storage section 58 is provided for the headphone 10 or the portable audio recording and playback apparatus 20, and an authentication section 202 provided for the audio-signal transmission apparatus 200 executes individual authentication. Only when a successful authentication is obtained, a download control section 203 is activated to execute downloading.

The present invention is not limited to the embodiments described above, and various modifications thereof are possible. For example, in the above embodiments, the 2.3-MHz frequency band and the 2.8-MHz frequency band are used for the R channel transfer and the L channel transfer, respectively. Since a frequency band of 2 to 30 MHz can be used for the human-body transfer method, when the band is divided, audio signals can be transferred through a vast number of channels. In this case, the 5+1 channel method of Dolby Digital (trade name) is implemented by a wireless headphone. Conventionally, it is very difficult for wireless radio transfer to implement such a method.

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WHAT IS CLAIMED IS:

1. A portable audio listening apparatus comprising:  
means for generating an audio modulated signal  
modulated in a band in which a signal is transferred by  
using a human body;  
a first electrode for outputting the generated audio  
modulated signal;  
a second electrode for receiving an audio modulated  
signal transferred through the first electrode and a human  
body;  
means for demodulating the audio modulated signal  
received by the second electrode; and  
means for generating audible sound according to the  
demodulated signal.
2. A portable audio listening apparatus comprising:  
a portable transmission apparatus and a portable  
receiving apparatus electrically and mechanically structured  
as different units,  
the portable transmission apparatus comprising:  
means for generating an audio modulated signal  
modulated in a band in which a signal is transferred by  
using a human body; and  
a first electrode for outputting the generated

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audio modulated signal, and

the portable receiving apparatus comprising:

a second electrode for receiving an audio modulated signal transferred through the first electrode and a human body;

means for demodulating the audio modulated signal received by the second electrode; and

means for generating audible sound according to the demodulated signal.

3. A portable audio listening apparatus according to Claim 2, wherein the transmission apparatus further comprises means for storing individual authentication data.

4. A portable audio listening apparatus according to one of Claims 2 and 3, wherein the receiving apparatus further comprises means for storing individual authentication data.

5. A portable audio listening apparatus according to one of Claims 1 to 3, wherein the transmission apparatus further comprises playback means for playing back an audio signal to be modulated and control means for controlling the playback means.

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6. A portable audio listening apparatus according to Claim 5, wherein the playback means accommodates a detachable recording medium and reproduces an audio signal from the recording medium.

7. A portable audio listening apparatus according to one of Claims 2, 3, and 6, wherein the transmission apparatus comprises recording means for recording an audio signal in a predetermined form, receives by an electrode an audio modulated signal transferred from a predetermined another transmission apparatus by using a human body, and demodulates the received audio modulated signal and records it in a predetermined recording form by using the recording means.

8. A portable audio listening apparatus according to Claim 7, wherein the frequency band of an audio modulated signal transmitted by the transmission apparatus is made different from that of an audio modulated signal transmitted by the predetermined another transmission apparatus.

9. A portable transmission apparatus comprising:  
means for generating an audio modulated signal modulated in a band in which a signal is transferred by using a human body; and

an electrode for outputting the generated audio modulated signal.

10. A portable receiving apparatus comprising:  
an electrode for receiving an audio modulated signal transferred through a human body;  
means for demodulating the audio modulated signal received by the electrode; and  
means for generating audible sound according to the demodulated signal.

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ABSTRACT OF THE DISCLOSURE

A portable audio listening apparatus includes, for example, a portable audio playback apparatus serving as a portable transmission apparatus and a headphone serving as a portable receiving apparatus. The portable audio playback apparatus has an electrode at its side. The headphone includes an ear pad made from an electrically conductive material and an electric-circuit unit. The ear pad serves as an electrode and is connected to the electric-circuit unit by wiring. The electric-circuit unit includes a signal processing circuit and a battery. When the user wears the portable audio playback apparatus and the headphone, a transmission path is formed through the body of the user. A signal reproduced by the portable audio playback apparatus is sent through the body of the user and the ear pad to the electric-circuit unit of the headphone.

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FIG. 1

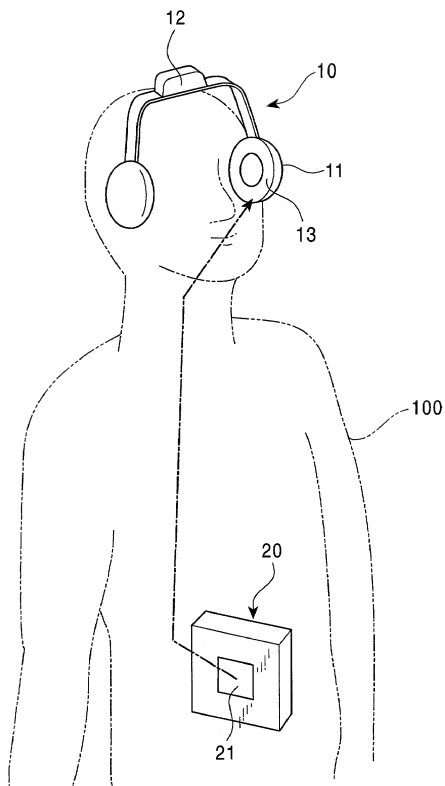


FIG. 2

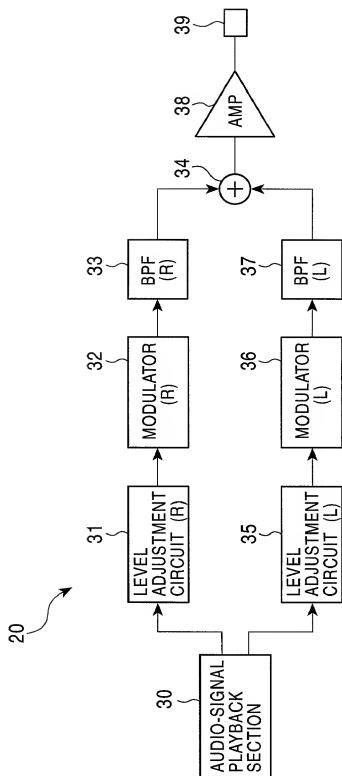




FIG. 3

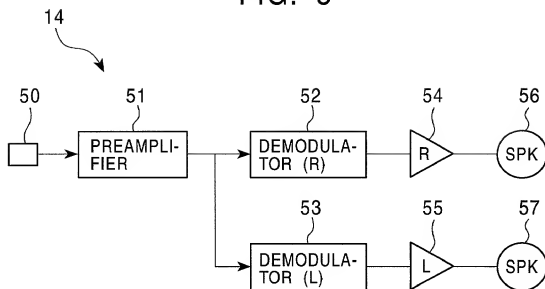


FIG. 4

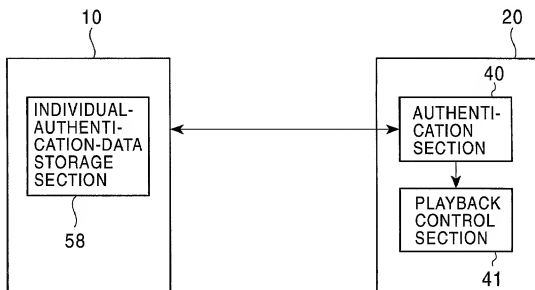


FIG. 5

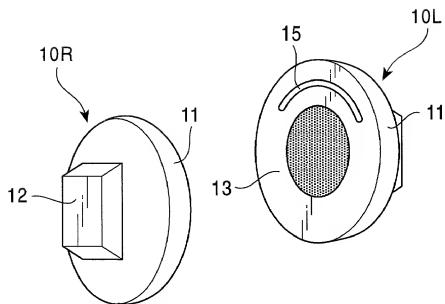


FIG. 6

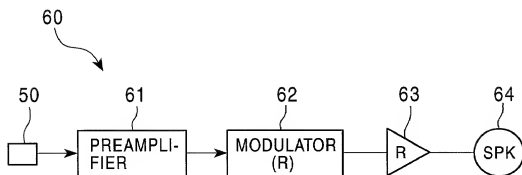


FIG. 7

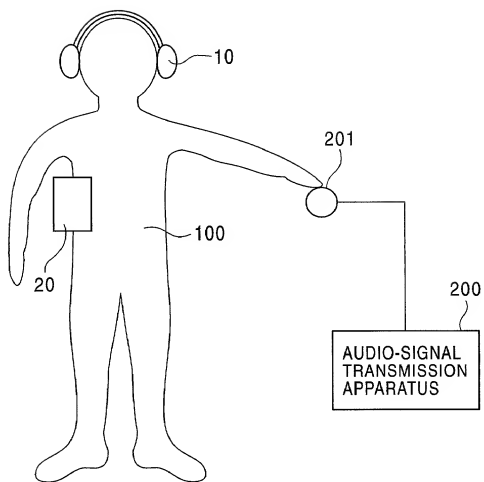


FIG. 8

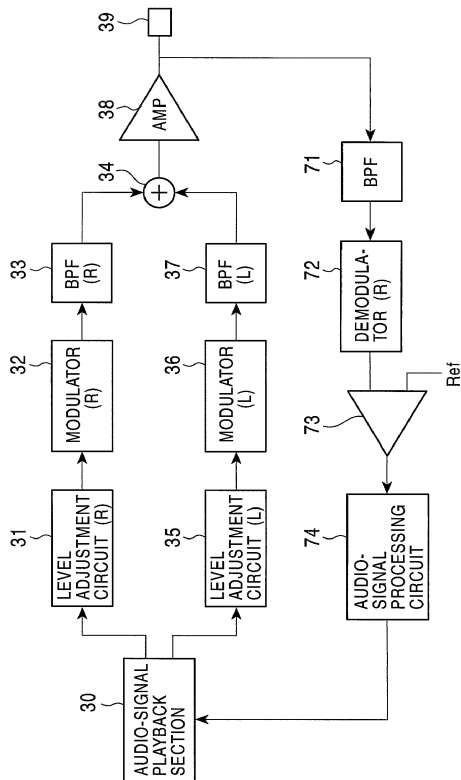
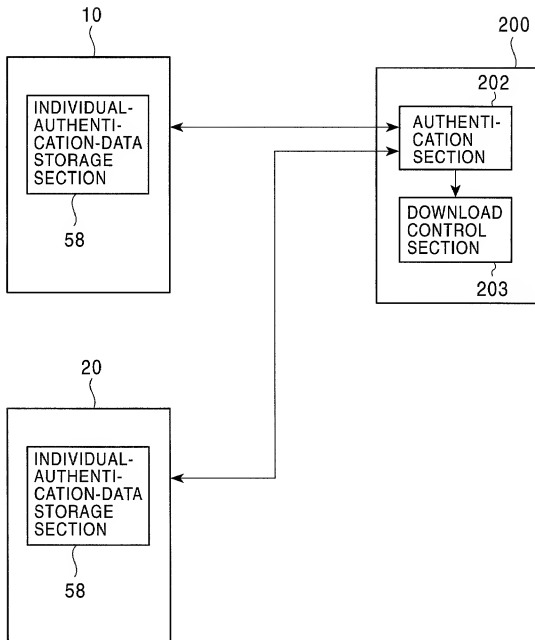


FIG. 9



SONY-U0380

## Declaration and Power of Attorney For Patent Application

## 特許出願宣言書及び委任状

## Japanese Language Declaration

## 日本語宣言書

下記の氏名の発明者として、私は以下の通り宣言します。

As a below named inventor, I hereby declare that:

私の住所、私書箱、国籍は下記の私の氏名の後に記載された通りです。

My residence, post office address and citizenship are as stated next to my name.

下記の名称の発明に関して請求範囲に記載され、特許出願している発明内容について、私が最初かつ唯一の発明者（下記の氏名が一つの場合）もしくは最初かつ共同発明者であると（下記の名称が複数の場合）信じています。

I believe I am the original, first and sole inventor (if only one named is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled.

PORTABLE AUDIO LISTENING APPARATUS

上記発明の明細書（下記の欄でx印がついていない場合は、本書に添付）は、

the specification of which is attached hereto unless the following box is checked:

☐ 月 日に出願され、米国出願番号または特許協定条約国際出願番号を \_\_\_\_\_ とし、  
 (該当する場合) \_\_\_\_\_ に訂正されました。

☐ was filed on \_\_\_\_\_ as United States Application Number or PCT International Application Number \_\_\_\_\_ and was amended on \_\_\_\_\_ (if applicable).

私は、特許請求範囲を含む上記訂正後の明細書を検討し、内容を理解していることをここに表明します。

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

私は、連邦規則法典第37編第1条56項に定義されるとおり、特許資格の有無について重要な情報を開示する義務があることを認めます。

I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations, Section 1.56.

私は、米国法典第35編119条(a)-(d)項又は365条(b)項に基づき下記の、米国以外の国の少なくとも一カ国を指定している特許協力条約365(a)項に基づく国際出願、又は外国での特許出願もしくは発明者証の出願についての外国優先権をここに主張するとともに、優先権を主張している、本出願の前に出願された特許または発明者証の外国出願を以下に、枠内をマークすることで、示しています。

I hereby claim foreign priority under Title 35, United States Code, Section 119(a)-(d) or 365(b) of any foreign application(s) for patent or inventor's certificate, or 365(a) of any PCT International application which designated at least one country other than the United States, listed below and have also identified below, by checking the box, any foreign application for patent or inventor's certificate, or PCT International application having a filing date before that of the application on which priority is claimed.

Prior Foreign Application(s)  
外国での先行出願Priority Not Claimed  
優先権主張なしP11-320629  
(Number)  
(番号)Japan  
(Country)  
(国名)11 November 1999  
(Day/Month/Year Filed)  
(出願年月日)(Number)  
(番号)(Country)  
(国名)(Day/Month/Year Filed)  
(出願年月日)

私は、第35編米国法典119条(e)項に基づいて下記の米国特許出願規定に記載された権利をここに主張いたします。

I hereby claim the benefit under Title 35, United States Code, Section 119(e) of any United States provisional application(s) listed below.

(Application No.)  
(出願番号)(Filing Date)  
(出願日)(Application No.)  
(出願番号)(Filing Date)  
(出願日)

## Declaration and Power of Attorney for Patent Application

## 特許出願宣言書及び委任状

## Japanese Language Declaration

## 日本語宣言書

私は、下記の米国法典第35編120条に基づいて下記の米国特許出願に記載された権利、又は米国を指定している特許協力条約365条(c)に基づき権利をここに主張します。また、本出願の各請求範囲の内容が米国法典第35編112条第1項又は特許協力条約で規定された方法で先行する米国特許出願に開示されていない限り、その先行米国出願書提出日以降で本出願書の日本国内または特許協力条約国際提出日までの期間中に入手された、連邦規則法典第37編1.56条5項で定義された特許資格の有無に関する重要な情報について開示義務があることを認識しています。

I hereby claim the benefit under Title 35, United States Code, Section 120 of any United States application(s), or 365(c) of any PCT International application designating the United States, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT International application in the manner provided by the first paragraph of Title 35, United States Code, Section 112, I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations, Section 1.56 which became available between the filing date of the prior application and the national or PCT International filing date of application.

(Application No.)  
(出願番号)

(Filing Date)  
(出願日)

(Status: Patented, Pending, Abandoned)  
(現況: 特許許可済、係属中、放棄済)

(Application No.)  
(出願番号)

(Filing Date)  
(出願日)

(Status: Patented, Pending, Abandoned)  
(現況: 特許許可済、係属中、放棄済)

私は、私自身の知識に基づいて本宣言書中で私が行なう表明が真実であり、かつ私の入手した情報と私の信じることに基づき表明が全て真実であると信じていること、さらに故意になされた虚偽の表明及びそれと同等の行為は米国法典第18編第1001条に基づき、罰金または拘禁、もしくはその両方により処罰されること、そしてそのような故意による虚偽の声明を行えば、出願した、又は既に許可された特許の有効性が失われることを認識し、よってここに上記のごとく宣言を致します。

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may be jeopardize the validity of the application or any patent issued thereon.

委任状: 私は下記の発明者として、本出願に関する一切の手続きを米特許商標局に対して遂行する弁理士または代理人として、下記の者を指名いたします。(弁理士、または代理人の氏名及び登録番号を明記のこと)

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特許出願宣言書及び委任状

## Japanese Language Declaration

日本語宣言書

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